CASIO

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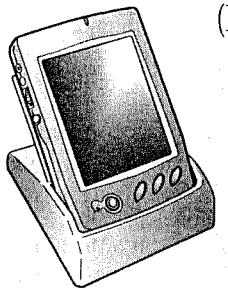
CASSIOPEIA

E-11
Getting Started with the CASSIOPEIA

(Hardware Manual)



User documentation consists of two manuals: Microsoft User's Guide and this booklet. Be sure to read this manual first.

Be sure to read the Safety Precautions contained in this manual to ensure proper operation of this product.

Keep this manual in a safe place for future reference.

CASIO

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取扱説明書に従って正しい取り扱いをしてください。

Safety Precautions

Congratulations upon your selection of the CASSIOPEIA. Be sure to read the following Safety Precautions before trying to use it for the first time.

Note

- All mentions of "the unit" in the following precautions refer to the CASSIOPEIA E-11

Markings and Symbols

The following are the meanings of the markings and symbols used in these Safety Precautions.

⚠ **Warning**	This symbol indicates information that, if ignored or applied incorrectly, creates the possibility of death or serious personal injury.
⚠ **Caution**	This symbol indicates information that, if ignored or applied incorrectly, creates the possibility of personal injury or property damage.

- A diagonal line indicates something you should not do. The symbol shown here indicates you should not try to take the unit apart.

- A black circle indicates something you should do. The symbol shown here indicates you should unplug the unit from the wall outlet.

Health Precautions

⚠ Warning

- Long continuous use of the unit when you are tired is not good for your health, and should be avoided.

⚠ Caution

- Be sure to allow for adequate rest when using the unit for long periods. As a general rule, you should allow for 10 to 15 minutes of rest per hour.

Precautions During Use

⚠ Warning

Abnormal Conditions

- Continued use of the unit while it is emitting smoke or strange odor creates the danger of fire and electrical shock. Immediately turn off power, unplug the AC adapter from the wall outlet, remove batteries, and contact your original dealer or an authorized CASIO service provider to request servicing.

Water and Foreign Matter

- Should any foreign matter (metal, water or other liquid) ever get into the unit, immediately turn off power, unplug the AC adapter from the wall outlet, remove batteries, and contact your original dealer or an authorized CASIO service provider to request servicing.

Dropping and Damage

- Should the unit ever fall or otherwise become damaged, unplug the AC adapter from the power outlet, remove batteries, and contact your original dealer or an authorized CASIO service provider. Continued use creates the danger of fire and electrical shock.

Disassembly

- Never try to take the unit apart or modify it in any way. Doing so creates the danger of fire and electrical shock.

Magnetic Force

- If you are fitted with a pacemaker, keep the CASSIOPEIA away from your chest area. In particular, do not carry the CASSIOPEIA in your breast pocket. Magnetic force generated by the speaker built into the CASSIOPEIA could possibly affect operation of a pacemaker. Should you ever suspect a problem, immediately move away from the CASSIOPEIA and contact your physician.

⚠ Caution

Memory Protection

- Be sure to keep separate copies of all important data by saving it on a computer disk or other medium. Note that all data stored in unit memory is deleted whenever batteries go dead. Memory contents can also become lost or corrupted due to malfunction and repair of the unit.

Location

- Do not locate the unit in an area subjected to large amounts of humidity or dust. Doing so can create the danger of fire and electrical shock.

- Keep the unit away from food preparation area, stoves, and anywhere else it might be expose to oil smoke or steam. Such conditions can create the danger of fire and electrical shock.

Avoid unstable surfaces.

- Never place the unit on an unstable surface, on a high shelf, or in any other unstable location. Doing so can create the danger of the unit falling and causing personal injury.

Magnetic Force

- Keep the CASSIOPEIA away from ATM cards, credit cards, and any other magnetic card during transport and storage. Magnetic force generated by its speaker can render magnetic cards unusable.
- Keep the CASSIOPEIA away from televisions and other radio wave receivers. Magnetic force generated by its speaker can cause interference with radio wave reception.

Batteries

⚠ Warning

- Never try to charge batteries, take them apart, or allow them to become shorted. Do not apply solder to batteries or expose them to heat, and never throw batteries into fire or water.
- While the lithium battery is removed from the unit, take care to keep it in a place where there is no danger of it being accidentally swallowed. Be especially careful around young children.
- Keep batteries out of the reach of young children. If a battery is accidentally swallowed, consult a physician immediately.
- Should fluid from the battery pack accidentally get into your eyes, do not rub them. Rinse your eyes with water and then consult your physician immediately.

⚠ Caution

Misuse of batteries can cause them to leak, which damage and corrodes the area around the battery and creates the danger of fire and personal injury. Be sure to observe the following precautions.

- When loading batteries, make sure their positive (+) and negative (–) poles are facing correctly.
- Remove batteries from the unit if you do not plan to use it for a long time.
- Use only battery types that are specified for this unit.
- Never mix new batteries with old ones.
- Never mix batteries of different types.

AC Adapter

⚠ Warning

- Never use a voltage that is different from that for which the AC adapter is rated. Also, do not plug the unit into a power outlet that is shared by other devices. Doing so creates the danger of fire and electrical shock.
- Never modify the power cord or excessively bend, twist, or pull it. Doing so creates the danger of fire and electrical shock.
- Do not allow the power cord to become damaged. Do not place heavy objects on the power cord or expose it to heat. A damaged power cord creates the danger of fire and electrical shock.
- Never touch the AC adapter while your hands are wet. Doing so creates the danger of electrical shock.
- Should the power cord ever become seriously damaged (internal wiring exposed or shorted), contact your original dealer or an authorized CASIO service provider to request servicing. Continued use of a seriously damaged power cord creates the danger of fire and electrical shock.
- Use only the AC adapter specified for this unit. Use of another type of AC adapter creates the danger of fire, and personal injury.

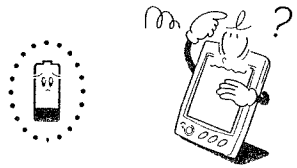
⚠ Caution

- Unplug the AC adapter from the wall outlet whenever leaving the unit unattended for long periods.
- Be sure to unplug the AC adapter from the wall outlet before attempting to move the unit to another location.
- Be sure to grasp the AC adapter when unplugging it from a wall outlet. Pulling on the power cord can damage it, and create the danger of fire and electrical shock.
- Keep the power cord away from stoves and other sources of heat. Heat can melt the insulation of the power cord and create the danger of fire and electrical shock.

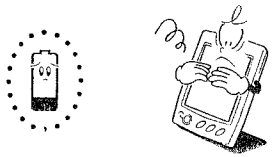
Operating Precautions

The CASSIOPEIA is a precision digital instrument. Incorrect operation and rough handling can cause data storage problems and other malfunction. Be sure to read the following precautions to ensure proper operation.

- Replace batteries as soon as possible when they start to become weak. Continued use while batteries are low can lead to loss of memory data.

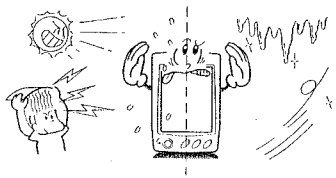


- Do not leave dead batteries in the CASSIOPEIA for long periods. Doing so can result in battery leakage, which can damage the CASSIOPEIA and cause malfunction.



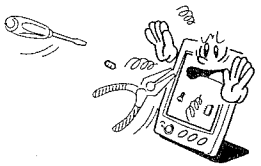
- Use the CASSIOPEIA under the conditions listed below.
  - Temperature: 0°C to 40°C (32°F to 104°F)
  - No condensation

  Conditions other than those above can cause malfunction.
- Avoid using the CASSIOPEIA in areas subjected to the following conditions.
  - Static electricity
  - Extreme heat or cold
  - High humidity
  - Sudden temperature changes
  - Large amounts of dust



- If you drop the CASSIOPEIA and damage it, immediately turn off power and contact your original dealer or an authorized CASIO service provider. Never continue using a damaged unit.
- Never place heavy objects on top of the CASSIOPEIA.

- Never try to take the CASSIOPEIA apart. Doing so can cause malfunction.



- Never insert foreign objects into connectors, slots, or other openings.

- Take care to avoid spilling water or drinks on the CASSIOPEIA.

- Use only the stylus that comes with the CASSIOPEIA to press touch screen keys and the RESET button.
- Never use any object other than the stylus that comes with the CASSIOPEIA. Doing so can scratch the touch screen and cause malfunction.
- Never use thinner, benzene, cosmetics, or other volatile agents to clean the exterior of the CASSIOPEIA. Use only a dry soft cloth or a soft cloth moistened with a weak solution of water and mild neutral detergent.
- Frequent use of the backlight or optionally available CompactFlash cards results in battery life shorter than that indicated in the specifications of this manual.

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Terms and Symbols used in this manual

- The term "unit" in this manual refers to the CASSIOPEIA E-11.
- The symbol "**Important** ⚠" indicates important information about a procedure that can result in problems if not performed correctly. Be sure to read such information carefully.

Set Up

Be sure to perform the following setup procedure before using the unit for the first time.

- The following information is the same as that contained on the Quick Start Guide that comes packed with the unit.

1. Load the main batteries (page 30).

> Be sure to load the main batteries first. The unit will not operate correctly if you load the back-up battery before the main batteries.

2. Load the back-up battery (page 31).
3. After about **five seconds**, turn on the unit.
4. The following two screens appear on the display in succession.
   - Startup screen
   - Touch screen alignment screen
5. Follow the instructions that appear on the screen to make initial settings.

- Adjust the display contrast (page 17) if the figures on the screen are dim and difficult to see.
- You can change the settings you make here later if you want. See the Microsoft User's Guide for details.

Important ⚠

- If nothing happens when you tap the screen, or if the display does not show anything, first try performing the full reset (memory initialize) operation (page 35). If a full reset does not correct the problem, remove the main batteries and the back-up battery and leave them out for about five minutes. Next, restart the setup operation from step 1.
- When loading batteries, make sure their positive (+) and negative (–) poles are facing correctly.
- You should also perform the full reset (memory initialize) operation (page 35) whenever the message **"A problem with memory contents has been found..."** appears on the display.

6. The desktop appears after the initial setup procedure is complete.

- The unit is now set up for operation. See the documentation that comes with the unit for details on how to use its various functions. See "Using the Documentation" for details on the documentation that comes with the unit.
- After you are finished, press the [Power] button to turn off power.

Using Built-in Applications

You can use the built-in applications as soon as you finish the setup procedure. See the Microsoft User's Guide for details on how to use the built-in applications.

Using the Documentation

The documentation for this unit consists of this Hardware Manual and the Microsoft User's Guide. Be sure to read this Hardware Manual first. The following items point you in the right direction when you need to locate further information.

After reading the Hardware Manual

After you use the Hardware Manual to get the unit set up and running, see the Microsoft User's Guide for details on operational procedures.

Operational problems

See "Troubleshooting" on page 37 of this Hardware Manual and the Microsoft User's Guide when the unit does not seem to be responding properly even though you are performing operational procedures as directed.

Connecting to a personal computer

See page 20 of this Hardware Manual for information on compatible personal computers and details on how to actually connect to a PC. See the Microsoft User's Guide for details on procedures required for exchanging data between this unit and computer.

Installing applications from the Bonus CD-ROM

See the documentation contained on the CD-ROM for details on installing applications.

Using the Touch Screen Sheet

The touch screen sheet that comes with the unit protects the touch screen against scratching and other damage. Use the following procedure to affix the sheet to the touch screen.

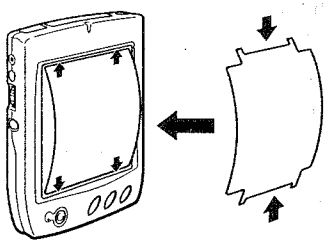
Important ⚠

- When setting the Touch Screen sheet in place, take care not to press down on the Touch Screen too hard. Doing so can damage the Touch Screen.

1. Make sure the touch screen is free of dust and dirt.
2. Peel the green film from the back of the touch screen sheet.

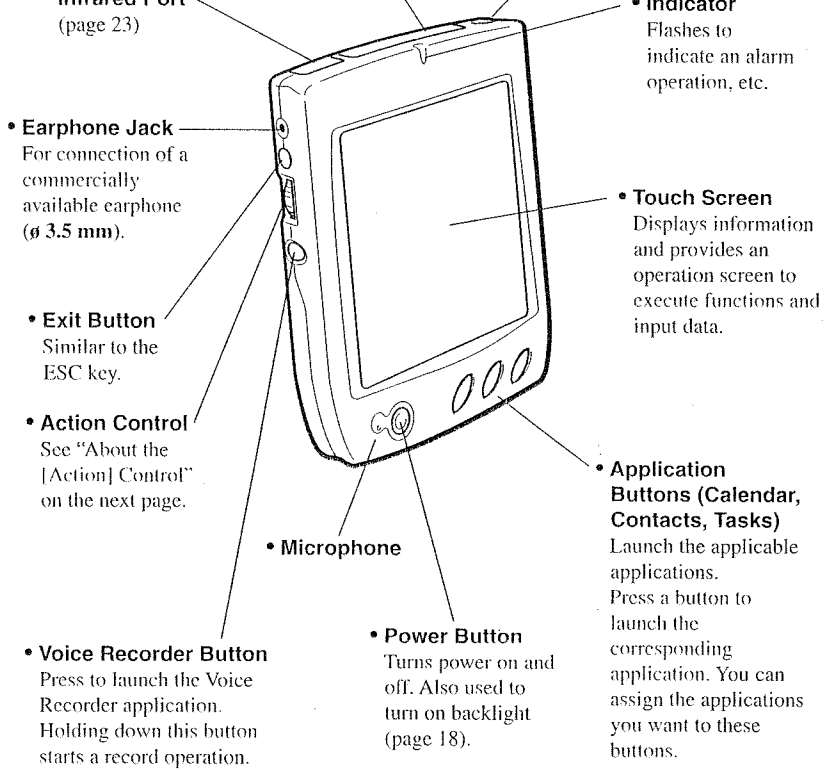
- If you have a problem peeling off the green film, try using cellophane tape. Hold the end of a piece of tape about 5 cm long between your thumb and forefinger, adhesive side facing down. Affix the other end of the tape to one of the corner areas the green film and then pull up. The tape should pull up the green film.
- Do not touch the surface of the touch screen sheet after removing the film.
- The side of the sheet that is protected by the film is the surface that should come into contact with the touch screen.

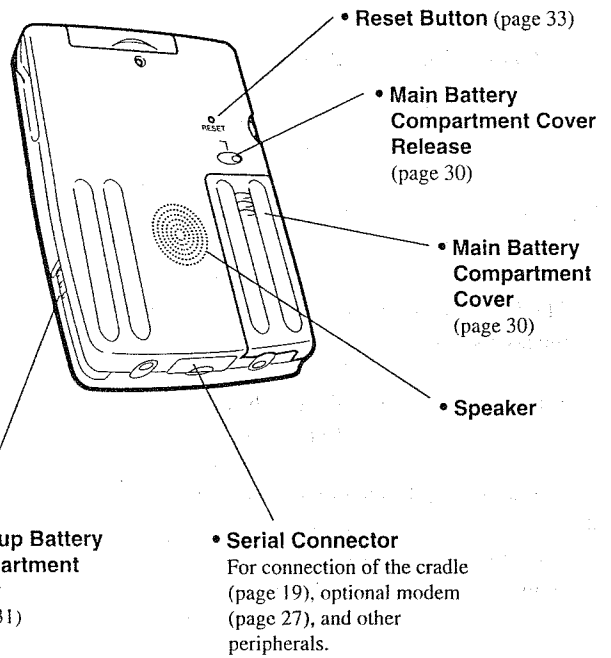
3. Insert the top and bottom edges of the touch screen sheet into the slits between the touch screen and the unit's case.



- Dust or dirt between the sheet and the touch screen can scratch the touch screen. Take care to make sure that no foreign matter gets between the sheet and touch screen when affixing the sheet.

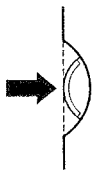
General Guide


• Card Slot Cover
(page 25)
• Stylus
(page 16)
• Infrared Port
(page 23)
• Indicator
Flashes to indicate an alarm operation, etc.
• Earphone Jack
For connection of a commercially available earphone (ø 3.5 mm).
• Touch Screen
Displays information and provides an operation screen to execute functions and input data.
• Exit Button
Similar to the ESC key.
• Action Control
See "About the [Action] Control" on the next page.
• Application Buttons (Calendar, Contacts, Tasks)
Launch the applicable applications. Press a button to launch the corresponding application. You can assign the applications you want to these buttons.
• Microphone
• Voice Recorder Button
Press to launch the Voice Recorder application. Holding down this button starts a record operation.
• Power Button
Turns power on and off. Also used to turn on backlight (page 18).


• Reset Button (page 33)
• Main Battery Compartment Cover Release
(page 30)
• Main Battery Compartment Cover
(page 30)
• Speaker
• Back-up Battery Compartment Cover
(page 31)
• Serial Connector
For connection of the cradle (page 19), optional modem (page 27), and other peripherals.

About the [Action] Control

Operations can be performed by pressing and rotating the [Action] Control.



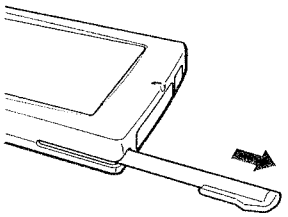
Pressing the [Action] control performs an operation similar to the Enter key of a computer keyboard.

Rotating the [Action] control performs operations similar to the up and down arrow keys of a computer keyboard.

See the Microsoft User's Guide for full details on [Action] control operations inside of specific applications.

Using the Stylus

Data input and virtually all other operations are performed using a stylus, which is housed inside the stylus holder in the higher right corner of the unit.



The following defines the various operations that you can perform with the stylus.

Tap ..... Tap on the touch screen lightly with the stylus. Tapping is used to press an on-screen button, to select a menu item, or to perform other similar operations.

Double-tap .... Tap the touch screen twice in quick succession. Some applications require double-tapping to perform certain operations.

Drag ..... Keeping the stylus pressed lightly against the screen, move the stylus to another location.

Important ⚠

- Take care that you do not misplace or otherwise lose the stylus by always storing it in the stylus holder when you are not using it.
- Take care to avoid breaking the tip of the stylus.
- Use only the stylus that comes with the unit or some other similar object to perform touch screen operations. Never use a pen, pencil, or other writing implement.

Realigning the Touch Screen

You should realign the touch screen whenever touch screen response is bad, or when the operation performed is different from the operation you expected when tapping on the touch screen.
To realign the touch screen, press [Action] while holding down the [Power] button (or tap Start, tap Settings and then tap Stylus). Next, follow the instructions that appear on the screen.

Adjusting Display Contrast

Perform the following operations to adjust display contrast and make figures on the display darker or lighter.

- Tap the Start menu, tap Settings, and then tap Contrast & Mute. Follow the instructions on your screen for adjusting the contrast.
- You can also adjust contrast by holding down [Exit] and rotate the [Action] control upward to increase contrast, and downward to decrease it.

Turning the Mute Option On and Off

Tap the Start menu, tap Settings, and then tap Contrast & Mute. Follow the instructions on your screen to turn the mute option on or off.

Important ⚠

- Turning on the mute option is recommended when battery power is low, because playing sounds and recordings requires a large amount of power.

Using the Backlight

Hold down the [Power] button for about one second to turn on the backlight and illuminate the display for easy reading when available lighting is dim.
The backlight stays on as long as you continue to perform operations on the unit. The backlight turns off automatically if you do not perform any unit operation for a certain amount of time, which you can specify using the backlight properties. See the Microsoft User's Guide for details on specifying backlight properties.

Important ⚠

- Starting a record operation using the built-in microphone while the backlight is on causes the backlight to turn off. This protects against backlight noise mixing in with the sound you are recording.
- Leaving the backlight on for long periods can greatly reduce battery life.
- The unit make a slight sound while the backlight is turned on. This is normal, and does not indicate malfunction.
- Besides turning off when batteries are low, the backlight may also turn off when there is a large momentary drain of battery power due to CompactFlash card operation, data communication, or some other reason. Under this condition, the remaining battery power on Power Properties shows Low. Either of the following actions can be used to correct this condition and re-enable backlight operation.

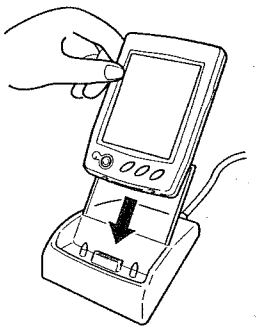
  1. Turn off the CASSIOPEIA, connect the AC adapter, and turn power back on again.
  2. Turn off the CASSIOPEIA, stop the operation that is draining battery power, and turn power back on again.

  If either of the above actions does not correct the condition, replace the main batteries as soon as possible.

Using the Cradle

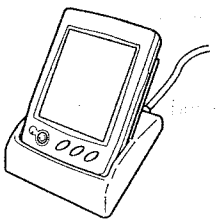
The cradle provides quick and easy connection between the unit and a personal computer. The unit can also be powered from an AC power source when it is placed on the cradle.
The following procedure describes how to place the unit onto the cradle.

1. Place the cradle on a desk or other flat, level surface.
2. Turn off the unit power.
3. Orient the unit in relation to the cradle as shown in the illustration below.



Important ⚠
When attaching the unit to the cradle, make sure that the connector plugs in as far as it will go.

4. Taking care to align the serial connector on the bottom of the unit with the connector on the cradle, insert the unit into the cradle as shown in the illustration below.



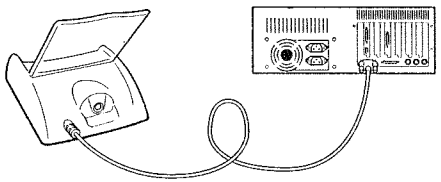
Make sure that the CASSIOPEIA is turned off whenever mounting it on or removing it from the cradle.

Connecting the Cradle to a Computer

The cradle has a serial cable for connection to a personal computer. Connect the end of the cable to a serial port of the computer to which you want to connect.

Important ⚠

- See "Required System Configuration" on page 21 of this Hardware Manual for details on the type of computer system required for use with the cradle.
- Be sure to turn off the CASSIOPEIA and your computer before connecting the cradle.



- The above illustration is one example of possible connection configurations. The location and layout of serial connectors vary from computer to computer. See the documentation that comes with your computer for full details on connecting to its serial ports.
- The cradle can be connected directly to a 9-pin type serial port, which is the type used by most personal computers. You can also connect to a 25-pin serial port using an adapter.
- Note that after connecting the cradle to your computer, you also need to make certain Windows CE Services settings on your computer to enable data transfers. See the Microsoft User's Guide for details about setting up and using Windows CE Services.

Required System Configuration

The minimum system configuration required to connect the cradle and perform data communications is described below. This system configuration also makes it possible to install and use Windows CE Services, which is included on the Microsoft CD-ROM provided with the unit.

Minimum Desktop Computer Requirements

- Microsoft Windows NT Workstation 4.0 or Windows 95/98 (U.S.version)
- Desktop computer with a Pentium processor for Windows NT.
- Desktop computer with a 486/66 DX or higher processor (Pentium P90 recommended) for Windows 95/98
- 16 MB of memory for Windows 95/98 (More memory will give improved performance) or Windows NT Workstation 4.0 (32 MB recommended for Windows NT)
- Hard disk drive with 10 to 50 MB of available hard disk space (actual requirements will vary based on selection of features and user's current system configuration)
- Available 9 or 25 pin communications port (adapter required for 25 pin communication port)
- One CD-ROM drive
- VGA or higher-resolution graphics card (Super VGA 256-color recommended)
- Keyboard
- Microsoft Mouse or compatible pointing device

Options for either Windows NT Workstation 4.0 or Windows 95/98:

- Audio card/speakers for sound
- Microsoft Office 97 or Microsoft Office 95
- Serial or built-in infrared adapter for synchronization
- Modem for remote synchronization

Requirements for Mobile Channels Support

- Microsoft Internet Explorer 4.0 (included on CD), which requires 40 MB - 70 MB of hard disk space and a minimum 486/66 processor. Service Pack 3 (or higher) required for Windows NT systems (included on CD).

Different minimum system requirements are required when using the applications included on the CASSIOPEIA Bonus Software Applications CD-ROM. See the documentation contained on the CD-ROM for full details.

Important ⚠

- When installing Windows CE Services on a computer, check to make sure that the specified COM port number correctly indicates the serial port to which the cradle is connected.
- Some laptop and sub-compact computers with built-in infrared ports and modems are initially configured so the COM port is not always used as a serial port. In such a case, you must change the setting so the COM port is always used as a serial port.

See the documentation that comes with your computer for full details on COM port numbers and settings.

Infrared Communications

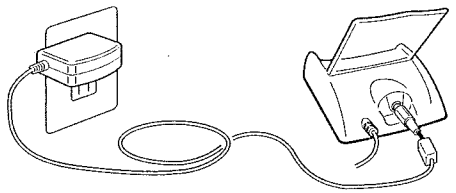
The infrared port of this unit can be used to exchange data with another E-11 unit, or with another device equipped with infrared communication capabilities. Remember that the two infrared ports must be pointed directly at each other when performing communications. The distance between the two infrared ports must be within 30 cm.
See the Microsoft User's Guide for full details on performing infrared communications.
For infrared data communications with another device, the other device must conform with IrDA 1.0 standards, or it must specifically support infrared data communication with a E-11.

Important ⚠

- Take care so either of the units do not move while infrared data communications are in progress.
- Infrared data communications may be impossible under strong sunlight or inverter type fluorescent lighting.
- Infrared data communication problems can be caused by the distance between the two ports, the angle between the two ports, outdoor sunlight, and low batteries.
- Dirt and dust on the infrared port surface can cause communications errors and other problems. Use a soft, dry cloth to wipe the port clean of dirt and dust.

Using the AC Adapter

An AC adapter connected to the cradle can be used as the main power supply of a unit placed on the cradle.



Warning ⚠

Use only the AC adapter that is specified for this unit. Use another type of AC adapter creates the danger of malfunction and bursting of batteries.

Important ⚠

- Power also will not turn on if the main batteries loaded in the CASSIOPEA are dead.
- Long term use of the AC adapter can cause it to become warm to the touch. This is normal and does not indicate malfunction.
- Be sure to unplug the AC adapter from the power outlet whenever you are not using it.
- The AC adapter is designed for indoor use only, and should not be used outdoors.

Note

You can also connect the AC adapter to an optional modem (J-E10MA) to use as the main power supply of the unit.

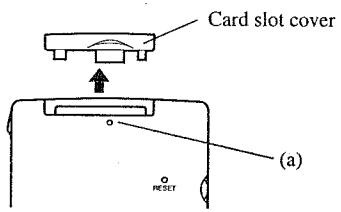
CompactFlash cards

This unit is equipped with one CompactFlash card slot, which you can use for a CompactFlash Type II memory card or modem card. CompactFlash Type I cards are also supported. Use the procedure described below to load and remove CompactFlash cards.

Important ⚠

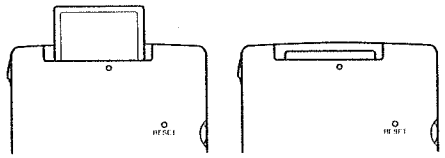
- Inserting some types of modem cards into the CompactFlash card slot may it impossible to close the cover. Leave the card slot cover off of the unit, but be sure to store it in a safe place for later use.
- Be sure to close the card slot cover whenever you are not using a card.
- Do not press with undue force when pushing the card into the slot. Doing so can damage the card or connectors. If the card seems to become stuck part way in, it may be because it is upside down or backwards. Remove the card, check the orientation, and try again.
- If you are inputting or editing data, we strongly recommend that you first store all currently unsaved data before performing the following operation.
- Note that only CompactFlash cards with an operating voltage of 3.3 volts are supported. 5-volt CompactFlash cards are not supported.

1. Make sure that unit power is turned off.
   - If power is on, press the [Power] button to turn it off.
2. While pressing inside the hole (a) below the card slot cover with the stylus, slide the cover up and remove it from the unit.



3. If there is a card loaded in the slot, use the tip of your finger to pull on the raised bar on the side of the card, and pull it out.
4. Slide the card you want to load into the card slot.

- Make sure the label side of the card facing towards the unit's display screen. The card will stop part way into the slot if it is oriented incorrectly.



Slide the card into the slot as far as it will go.

5. Replace the card slot cover.

- Be sure to always replace the card slot cover when using a CompactFlash memory card.
- Inserting some types of modem cards into the CompactFlash card slot may it impossible to close the cover. Leave the card slot cover off of the unit, but be sure to store it in a safe place for later use.

Modem (For use in the U.S. and Canada only)

The optional modem (J-E10MA) makes it possible for you to connect over an analog telephone line to a host computer or the Internet.
The unit can be powered by the AC adapter while the modem is attached, so AC adapter power can be used for modem communications in the office, at home, in a hotel room, or anywhere else electrical power is available.
See the documentation that comes with the modem for details on how to use it.

Software Applications

This unit comes with a CASSIOPEIA Bonus Software Applications CD-ROM that contains a number of useful applications. Note that you must install the applications you need from the CD-ROM before you can use them. See the documentation contained on the CD-ROM for details on using the software applications.
Software applications are also available for purchase from Microsoft and third parties who support Windows CE. For details on commercially available software applications, contact your local retailer or visit the Microsoft Web site at http://www.microsoft.com.

Important ⚠

- Whenever purchasing software applications, always double-check to make sure that it is compatible with the E-11.

Replacing Batteries

This unit is powered by a dual power supply that consists of main batteries and a back-up battery.

- The unit is shipped from the factory with batteries packed separately (not installed in the unit). Be sure to load the main batteries and then the back-up battery into the unit before trying to use it.
- The unit's Power properties dialog shows you the current status of both the main batteries and the back-up battery. See the Microsoft User's Guide for details on how to access this dialog. We strongly recommend that you occasionally check the status of the batteries to avoid sudden power outages.

Important ⚠

- The following messages appear on the unit display whenever battery power drops below a certain level. Replace the applicable batteries with new ones as soon as possible after these messages appear.

Main Batteries

"Prevent possible data loss by promptly replacing your main batteries according to your hardware manufacturer's instructions."

Back-up Battery

"Prevent possible data loss by promptly replacing your backup battery according to your hardware manufacturer's instructions."

- Data stored in memory can be lost if you continue to use the unit after the low battery message appears or if you incorrectly load batteries. Be sure to always back up important data by storing it on computer disk or some other storage medium. See the Microsoft User's Guide for details on backing up data.
- Never remove the main batteries and back-up battery from the unit at the same time. Doing so causes all data stored in memory to be deleted.
- Should the main batteries and the back-up battery both require replacement, be sure to always replace the main batteries first.

- Use two AAA-size alkaline batteries for the main batteries and one CR2016 lithium battery for the back-up battery. Never use any other type of batteries.
- Do not leave dead batteries in the unit for long periods. Doing so can result in battery leakage, which can damage the unit and cause malfunction.
- Playing back a recording increases power demand by about 15 times, and turning on the backlight increases power demand by about 10 times. Because of this, the backlight or unit power may suddenly turn off* when these functions are used, even if the battery power level is sufficient for most other functions. It is recommended that you refrain from playing back recordings or turning on the backlight except when necessary. It is also recommended that you turn on the unit's mute function, which automatically disables sound output whenever battery power is low.

* If unit power turns off due to insufficient power, the following warning message appears on the display the next time you turn on unit power.

"Warning System powered off without warning in order to....."

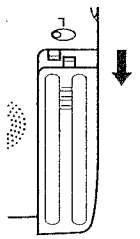
Important ⚠

Be sure to observe the following important battery handing precautions. Failure to do so can cause batteries to leak, resulting in damage to surrounding items and creation of the danger of fire and electrical shock.

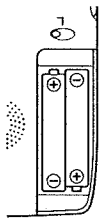
- Always make sure that the positive (+) and negative (–) poles of the batteries are oriented correctly.
- Never mix a new main battery with an old one.
- Never mix two main batteries of different types.
- Use only the types of batteries specified for use with this unit.

Replacing the Main Batteries

1. Make sure that unit power is turned off.
- If power is on, press the [Power] button to turn it off.
2. Turn the unit over.
3. While sliding the main battery compartment cover release to the FREE position, slide the main battery compartment cover from the unit.



4. Remove both of the main batteries, and load two new AAA-size alkaline batteries into the battery compartment.

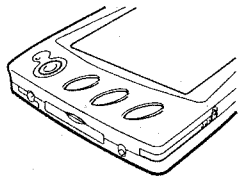


5. Replace the main battery compartment cover.
6. Slide the main battery compartment cover release back to the LOCK position.

After replacing batteries, turn on power and immediately check "Power Properties" by tapping Start, Settings, and then Power. At this time the Main Battery should read Good. If any other reading is shown, it means batteries are not loaded correctly or the batteries you loaded are old ones. Immediately remove the main batteries and load a set of new ones.

Replacing the Back-up Battery

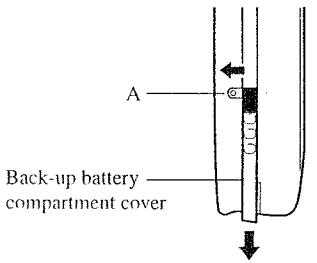
The back-up battery is in a compartment in the location shown in the illustration below.



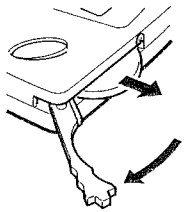
Important ⚠

- Never remove the main batteries and back-up battery from the unit at the same time. Doing so causes all data stored in memory to be deleted.
- Should the main batteries and the back-up battery both require replacement, be sure to always replace the main batteries first.
- Be sure to replace the back-up battery as soon as possible whenever the following message appears on the display: **"Prevent possible data loss by promptly replacing your backup battery according to your hardware manufacturer's instructions."**

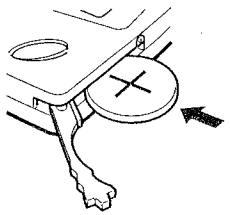
1. Make sure that unit power is turned off.
- If power is on, press the [Power] button to turn it off.
2. Slide and hold the release slider (marked A in the illustration below) in the direction indicated by the arrow, and then slide the back-up battery compartment cover down.



3. Rotating the back-up battery cover as shown in the illustration, pull it towards you and remove the old battery.



4. Wipe off the surfaces of a new CR2016 lithium battery with a soft cloth, and then load it into the battery compartment.



- Make sure that the + side of the battery is facing up (so you can see it)!

5. Replace the back-up battery compartment cover.

Resetting the Unit

"Reset" is similar to a computer reboot. Performing a reset deletes any data that is in the process of being input or edited, without yet being saved. Data stored in memory and all settings, however, are retained. Perform the reset operation whenever the unit fails to operate correctly due to operational error or some other abnormality. Any of the following symptoms indicate that reset is required.

- Failure of the unit to respond when the screen is tapped or a button is pressed.
- The hourglass icon remaining on the screen.

Performing a Reset

1. Use the stylus to press the RESET button.

- The unit performs a reset followed by a memory check operation. If no data error is found, the following two screens appear on the display in succession.
  - Startup screen
  - Desktop

2. Normal unit operation is possible after the desktop appears.

- Since memory data and settings are retained, you can continue operation from where you last left off.

Important ⚠

If the above operation does not solve the problem, perform a full reset (memory initialize, page 35).

Memory Error Message

If the memory check operation that the unit performs when the RESET button is pressed detects a data error, the following message appears on the screen instead of the startup screen.

"A problem with memory contents has been found, and memory must be initialized. Press [Action] to continue with the reset procedure. (Pressing [Action] may start the memory initialization procedure.) Perform the full reset procedure (memory initialization) in accordance with the procedure described in the manual."

This message indicates that the memory error is fatal and so recovery is impossible. Press [Action] to execute a full reset (memory initialize), which deletes all data stored in memory.

- Pressing [Action] should display the Startup screen followed by the touch screen alignment screen. Perform steps 4 through 6 under "Set Up" on page 10 to set up the unit.
- If pressing [Action] returns to the desktop without displaying the startup screen first, see the following explanation for the procedure you need to follow.

What to do if the startup screen does not appear when you press [Action]

Even though the desktop appears when you press [Action], there is still a data error in memory and you have to perform a full reset (memory initialize). Before you do, however, there is the chance that some of the data in memory can be recalled and even transferred to a computer. Try recalling the data you need before performing the procedure described on the next page to perform a full reset.

Full Reset (Memory Initialize)

Full reset (memory initialize) deletes all data, and resets all unit parameters to their initial defaults.
The following are conditions when you should perform a full reset.

- When you want to delete all memory data and return unit settings to their factory defaults
- When you forget your password and need to clear it
- When a data error causes operational problems
- Appearance of the message: **"A problem with memory contents has been found..."**

Performing a Full Reset

Important ⚠

The following procedure deletes all data in memory. Be sure that data is backed up or that you no longer need it before performing the following procedure.

1. Make sure that unit power is turned on.
2. While holding down the [Power] button, use the stylus to hold down the RESET button for about two seconds.
   - This causes the following message to appear on the display screen.

"Proceeding with this operation initializes memory. Press [Action] to proceed or [Exit] to cancel."

3. Press [Action].
   - This causes the following message to appear on the display screen.

"Proceeding with this operation deletes all data stored in memory. Press [Action] to proceed or [Exit] to cancel."

4. Press [Action] again.
   - This starts the full reset operation, which deletes all data in memory.
   - Pressing [Action] displays the Startup screen followed by the touch screen alignment screen. Perform steps 4 through 6 under "Set Up" on page 10 to set up the unit.

You can abort the full reset operation while the messages in steps 2 and 3 are on the display by pressing the [Exit] button.

Errors Following a Full Reset

Either of the following two conditions can cause errors to continue, even after you perform a full reset.

- Hardware defect
- System problem caused by failure by you to correctly perform the reset procedure before using the unit for the first time

If you suspect that the problem is being caused because you did not properly reset the unit before using it for the first time, perform the procedure on page 40 of this manual. This should correct the problem.

Troubleshooting

Before assuming malfunction and contacting your service provider when experiencing operational problems, be sure to check the following information as well as the troubleshooting section of the Microsoft User's Guide first.

Nothing happens when the [Power] button is pressed.		
Possible Cause	**Recommended Action**	**Page**
Display contrast is too light.	Adjust display contrast.	17
Main batteries are weak.	Replace the main batteries.	30

Operation is disabled when the AC adapter is connected.		
Possible Cause	**Recommended Action**	**Page**
Main batteries are weak.	Replace the main batteries.	30
Unit is not mounted on the cradle correctly.	Mount the unit on the cradle correctly.	19

Replacing the main batteries caused malfunction.		
Possible Cause	**Recommended Action**	**Page**
Batteries are not loaded correctly.	Remove the two main batteries and reload them. • Make sure the positive (+) and negative (–) poles are oriented correctly. • Never mix an old battery with a new one.	30
Contrast is too dark.	Adjust display contrast.	17
Battery replacement procedure was not followed correctly.	Perform a full reset (memory initialize).* • If the above action does not solve the problem, remove the main batteries and contact your original dealer or an authorized CASIO service provider.	35

The low back-up battery message continues to appear even after replacement of the back-up battery.		
Possible Cause	**Recommended Action**	**Page**
The back-up battery is upside down.	Remove the back-up battery, turn it over, and reload it.	31
The back-up battery was loaded before the main batteries.	Remove the back-up battery, and reload it.	31

Display screen is completely black or images appear too light.		
Possible Cause	**Recommended Action**	**Page**
Contrast setting is too dark or too light.	Adjust the contrast.	17

Nothing happens when the touch screen is touched.		
Possible Cause	**Recommended Action**	**Page**
Touch Screen is out of alignment.	Re-align the touch screen.	17
Static electricity or some other problem has caused the touch screen to malfunction.	Reset the unit.	33
Touch screen is damaged.	Contact your original dealer or an authorized CASIO service provider.	

The screen is locked up.		
Possible Cause	**Recommended Action**	**Page**
Internal malfunction	Reset the unit. If resetting the unit does not correct the problem, perform a full reset (memory initialize).*	33

A message about a data error is on the screen.		
Possible Cause	**Recommended Action**	**Page**
Internal malfunction	Follow the instructions that appear on the screen.	34

Nothing happens when the [Power] button is pressed.		
Possible Cause	**Recommended Action**	**Page**
Internal malfunction.	Reset the unit. If resetting the unit does not correct the problem, perform a full reset (memory initialize).*	33

* Perform the following procedure when the full reset (memory initialize) does not correct the problem.

Important ⚠

The following procedure deletes all data in memory.

- Do not reload data backed up on a computer after performing the procedure shown below. Data backed up while the unit's system is unstable can contain unstable elements. Reloading such data into the unit can cause the system to become unstable again.
- To prevent system instability when restoring data backed up on a personal computer, transfer the data to the computer using synchronization* for schedule and address data. For other data, drag and drop each item to copy it.

* See the Microsoft User's Guide for details about synchronization.

1. Remove both the main batteries and the back-up battery from the unit.
2. Wait for about five minutes.
3. Replace the main batteries.
   - Be sure to load the main batteries first. The unit will not operate correctly if you load the back-up battery before the main batteries.
4. Make sure that the main battery compartment cover release is in the LOCK position.
5. After about **five seconds**, turn on the unit.
   - The following two screens appear on the display in succession.
     - Startup screen
     - Touch screen alignment screen
6. Follow the instructions that appear on the screen to make initial settings.
7. After making initial settings, turn off unit power.
8. Load the back-up battery.

If you backed up your data onto a computer hard disk before performing the above operation, you can download it back to the unit after normal operation resumes. See the Microsoft User's Guide for details about restoring backed up data.

Appendix

Button Operations

The following shows the function of each button under various conditions.

Unit Power Off

[Power] Button ..... Turns on power.
[Voice Recorder] Button ... Turns on power, launches Voice Recorder applications, starts recording.
[Calendar] Button ..... Turns on power, displays Calendar screen.
[Contacts] Button ..... Turns on power, displays Contacts screen.
[Tasks] Button ..... Turns on power, displays Tasks screen.

- See the Microsoft User's Guide for details on using Voice Recorder, Calendar, Contacts, and Tasks.

Unit Power On

[Exit] + press [Action] ..... Opens the Start menu*.
[Exit] + rotate [Action] upward ..... Makes display contrast darker.
[Exit] + rotate [Action] downward ... Makes display contrast lighter.
[Power] Button + press [Action] ..... Launches the touch screen realignment procedure.

* See the Microsoft User's Guide for details on the Start menu.

Specifications

Model: E-11
Display: 240 × 320 dots
FSTN liquid crystal
4-scale monotone
CPU: VR4111
Memory: 8MB
Interfaces: Serial: RS-232C, 115.2 kbps max.
Infrared: IrDA Ver. 1.0, 115.2 kbps (max.)
Range: 30 cm max.
Card Slot: CompactFlash card, 3.3V Type II
Earphone jack: ø 3.5 mm
Monaural output (accepts stereo earphone jack)
Power Supply Main: Two AAA-size alkaline batteries
AC adapter (AD-C50200)
Back-up: One CR2016 lithium battery
Power Consumption: 1.5W
Battery Life
Operating temperatures: 20°C
Main: 40 hours: continuous display of Contacts screen
25 hours: Repeat of input and display in contacts, with an input-display time ratio of 1:10
60 minutes: Using the modem (J-E10MA), 14.4kbps continuous access
- Frequent use of the backlight or optionally available CompactFlash cards results in battery life shorter than shown here.

Back-up: Approximately 5 years
(When main batteries are replaced immediately after the low main battery power message appears. Back-up battery life is approximately two weeks when the unit is left with dead main batteries.)
Operating Temperature: 0°C to 40°C (32°F to 104°F)
Dimensions: 18.2H × 81.5W × 124D mm ($^3/_4$"H × 3$^1/_4$"W × 4$^7/_8$"D)
(Excluding projections and stylus)
Weight: 186 g (6.6oz) (including batteries)

Regulatory Information

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THIS UNIT IN THE U.S.A. (not applicable to other areas).

NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Proper connectors must be used for connection to host computer and/or peripherals in order to meet FCC emission limits.

Connector ..... E-11 unit to Cradle
Connector cable that comes with E-11
..... E-11 unit to desktop computer

Declaration of Conformity

Model Number: E-11
Trade Name: CASIO COMPUTER CO., LTD.
Responsible party: CASIO, INC.
Address: 570 MT. PLEASANT AVENUE, DOVER, NEW JERSEY 07801
Telephone number: 973-361-5400

This device complies with Part 15 of the FCC Rules, Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FC Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

CE
CASIO ELECTRONICS CO., LTD.
Unit 6, 1000 North Circular Road
London NW2 7JD, U.K.